

# Internet of Things

## Essentials of Industrial Automation for an IT Professional

### Course Agenda

#### Day 1

- Identifying automation devices impacting an EtherNet/IP™ network
- Creating an Ethernet driver using RSLinx® Classic software
- Verifying Ethernet communications using RSLinx Classic software
- Accessing a controller online using Studio 5000 Logix Designer™ software
- Uploading and downloading Studio 5000 Logix Designer projects
- Downloading a FactoryTalk® View Machine Edition (ME) runtime application to a PanelView™ Plus terminal

#### Day 2

- Determining the status of an EtherNet/IP device using hardware indicators
- Determining the status of an EtherNet/IP device using Studio 5000 Logix Designer software
- Determining a device configuration in a Studio 5000 Logix Designer project
- Retrieving configuration and performance data using an EtherNet/IP device webpage
- Identifying Industrial Automation and Control System (IACS) traffic on an EtherNet/IP network using a network protocol analyzer



**COURSE NUMBER: CCP810**

### Course Purpose

This course will assist you in building a solid foundation of Industrial Automation and Control Systems (IACS) knowledge. You will learn about and interact with a variety of automation hardware. You will also have an opportunity to use Rockwell Automation software to perform basic system and network tasks. While performing these tasks, you will gain an understanding of how controllers, I/O and HMI products function together on an EtherNet/IP network.

This introductory level course will give you a broad understanding of how an IACS leverages the high performance, convenience, and widespread usage of Ethernet networks.

After completing this course, you should be able to assess the general network requirements for an IACS communicating on an EtherNet/IP network.

### Who Should Attend

Individuals who have little or no working experience with automation systems and are interested in gaining a broad understanding of industrial automation and control on an EtherNet/IP network should attend this course.

LISTEN.  
THINK.  
SOLVE.®

## Prerequisites

To successfully complete this course, the following prerequisite is required:

- Ability to perform basic Windows® operating system tasks

## Technology Requirements

All technology is provided for student use in the classroom by Rockwell Automation. It is not necessary for students to bring any technology with them when attending this course.

## Student Materials

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- Student Manual
  - Includes the key concepts, definitions, examples and activities
- Lab Book
  - Provides learning activities and hands-on practice
- *Essentials of Industrial Automation for an IT Professional Procedures Guide*
  - Provides step-by-step instructions for tasks that are common to working with automation devices communicating on an EtherNet/IP network
- *Essentials of Industrial Automation for an IT Professional Documentation Reference Guide*
  - Searchable, electronic resource that contains frequently referenced technical documentation

## Hands-on Practice

Throughout this course, you will have the opportunity to practice the skills introduced in each lesson through a variety of hands-on exercises performed on an EtherNet/IP workstation.

## Next Learning Level

Once you have mastered the introductory skills covered in this course, you will have the knowledge and skills necessary to attend the next level of training:

- *Managing Industrial Networks with Cisco® Networking Technologies* (IMINS course)

## Course Length

This is a two-day course.

## Course Number

The course number is CCP810.

## IACET CEUs

CEUs Awarded: 1.4



## To Register

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley distributor or your local sales/support office for a complete listing of courses, descriptions, prices and schedules.

You can also access course information via the web at <http://www.rockwellautomation.com/training>

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